

To check that  $R$  is stably finite, suppose  $R^n \cong R^n \oplus L$ , where  $L$  is some  $R$ -module. By assumption,  $L \cong R^s$  for some  $s$ , so IBN yields  $n = n + s$ . Thus,  $L = 0$ , and we have checked that  $R^n$  is Dedekind-finite for any  $n$ ; that is,  $R$  is stably finite. The fact that  $R$  satisfies the rank condition is straightforward.